1989

Babani Electronics Radio & Computer Books

THE FINEST VALUE TECHNICAL BOOKS AVAILABLE!!

CONTENTS

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1. DATA & REFERENCE

1.1 SELECTOR GUIDES

TRANSISTOR SELECTOR GUIDE   **BP234**
£4.95   **J. C. J. van de Ven**
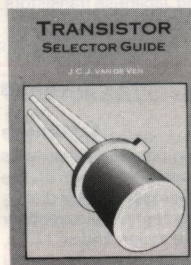
Prepared using the latest computerised techniques, from a vast database of electronic component specifications, this unique guide offers a range of selection tables compiled so as to be of maximum use to all electronics engineers, designers and hobbyists.
SECTION 1: Serves as a detailed introduction covering component markings, codings and standards, as well as explaining the symbols used and how the tables are arranged.
SECTION 2: Tabulates in alpha-numeric sequence the comprehensive specifications of over 1400 JEDEC, JIS, PRO-ELECTRON and brand specific designated devices.
SECTION 3: Tabulates the devices in a similar fashion to the previous section but this time they are arranged by case type.
SECTION 4: Considers particular limits to the electrical parameters when compiling the tables and it is sub-divided as follows:-
(1) Darlington transistors
(2) Devices that can handle voltages upwards of 300V
(3) Devices that can handle currents upwards of 5A
(4) Devices that can handle powers upwards of 5W
(5) Radio frequency devices that operate upwards of 30MHz
(6) FETs
SECTION 5: Illustrates package outlines and leadouts.
SECTION 6: Consists of a SMD (surface mounting device) markings conversion list.

POWER SELECTOR GUIDE   **BP235**
£4.95   **J. C. J. van de Ven**
Similar in style and presentation to BP234 but covers Power devices, including Diodes, Thyristors, Triacs, FET's and Power transistors etc.

1.2 EQUIVALENTS

DIGITAL IC EQUIVALENTS
AND PIN CONNECTIONS   **BP140**
£5.95   **A. Michaels**
Shows equivalents and pin connections of a popular user-orientated selection of European, American and Japanese digital ICs. Also includes details of packaging, families, functions, manufacturer and country of origin.

LINEAR IC EQUIVALENTS
AND PIN CONNECTIONS   **BP141**
£5.95   **A. Michaels**
Shows equivalents and pin connections of a popular user-orientated selection of European, American and Japanese linear ICs. Also includes details of functions, manufacturer, and country of origin.

INTERNATIONAL TRANSISTOR EQUIVALENTS GUIDE | BP85
£3.50 | **A. Michaels**

Helps the reader to find possible substitutes for a popular user-orientated selection of European, American and Japanese transistors. Also shows material type, polarity, manufacturer and use.

| 0 85934 060 0 | 1981 | 178 x 111 mm | 320 pages |

INTERNATIONAL DIODE EQUIVALENTS GUIDE | BP108
£2.25 | **A. Michaels**

Helps the user in finding possible substitutes for a large user-orientated selection of the many different types of semiconductor diodes that are available. Besides simple rectifier diodes, also included are zener diodes, LEDs, diacs, triacs, thyristors, OCIs, photo and display diodes. Also wherever possible, material type, function or type of diode, and country of origin are shown.

| 0 85934 083 X | 1982 | 178 x 111 mm | 144 pages |

1.3 GENERAL
See also book numbers 160, BP251 and BP255

ELECTRONIC HOBBYISTS HANDBOOK | BP233
£4.95 | **R. A. Penfold**

Mr. R. A. Penfold has used his vast knowledge of hobby electronics to provide a useful collection of data for the amateur electronics enthusiast, in a single source where it can be quickly and easily located. It includes a great deal of data on likely topics of interest, such as colour codes, integrated circuit pinouts, transistor leadout diagrams and data, basic circuit building blocks, etc. Some knowledge of electronics may be needed in order to make use of the information, but, in most cases, the reader is not simply provided with raw data, and where appropriate background information and explanatory notes are provided.

| 0 85934 178 X | 1987 | 264 x 195 mm | 96 pages |

HOW TO IDENTIFY UNMARKED ICs | BP101
£0.95 | **K. H. Recorr**

Shows the reader how, with just a test-meter, to go about recording the particular signature of an unmarked IC which should enable the IC to then be identified with reference to manufacturers' or other data. By now you are probably wondering what an IC signature is. It is a specially plotted chart produced by measuring the resistances between all terminal pairs of an IC. Originally published as an article in *Radio-Electronics*, one of the leading magazines in the U.S.A.

| 0 85934 076 7 | 1982 | | Chart |

RADIO AND ELECTRONIC COLOUR CODES AND DATA CHART | BP7
£0.95 | **B. B. Babani**

Covers many colour codes in use throughout the world, for most radio and electronic components. Includes resistors, capacitors, transformers, field coils, fuses, battery leads, speakers, etc.

| 0 85934 006 6 | 1971 | | Chart |

CHART OF RADIO, ELECTRONIC, SEMICONDUCTOR AND LOGIC SYMBOLS | BP27
£0.95 | **M. H. Babani**

Illustrates the common, and many of the not-so-common, radio, electronic, semiconductor and logic symbols that are used in books, magazines and instruction manuals, etc., in most countries throughout the world.

| 0 85934 029 5 | 1975 | | Chart |

RESISTOR SELECTION HANDBOOK | BP28
£0.60 | **B. B. Babani**

Shows how to combine two preferred values of resistors to obtain virtually any required value of resistance. Also includes information about fixed resistors, standard ranges, colour codes and markings, power ratings and resistor calculations.

| 0 85934 031 7 | 1976 | 168 x 113 mm | 48 pages |

2. CIRCUITS & CONSTRUCTIONAL PROJECTS

2.1 ABSOLUTE BEGINNERS
See also book numbers BP92, BP99 and BP110

BEGINNERS GUIDE TO BUILDING ELECTRONIC PROJECTS | 227
£1.95 | **R. A. Penfold**

Shows the complete beginner how to tackle the practical side of electronics, so that he or she can confidently build the electronic projects that are regularly featured in the popular magazines and books. Also includes examples in the form of simple projects that you can build.

| 0 900162 68 6 | 1977 | 178 x 111 mm | 112 pages |

ELECTRONIC PROJECTS FOR BEGINNERS | BP48
£1.95 | **F. G. Rayer**

Contains a wide range of easily made projects (including some that require no soldering) for the newcomer to electronics. Includes many actual component and wiring layouts to aid easy and successful construction.

| 0 85934 054 6 | 1978 | 178 x 111 mm | 112 pages |

IC PROJECTS FOR BEGINNERS | BP97
£1.95 | **F. G. Rayer**

Offers a range of simple projects based around a number of popular and inexpensive linear and digital integrated circuits. With most projects, complete layout and/or point-to-point wiring diagrams are included to help simplify construction.

| 0 85934 072 4 | 1982 | 178 x 111 mm | 112 pages |

ELECTRONIC MODULES AND SYSTEMS FOR BEGINNERS | BP266
£3.95 | **O. Bishop**

Shows the reader how to build a number of simple analogue and digital circuit modules, all suitable for battery operation, and all based on only 1 or 2 transistors or ICs. For each module there is a circuit diagram and description of how it works as well as clear constructional details.

| 0 85934 211 5 | 1989 | 178 x 111 mm | 160 pages |

30 SOLDERLESS BREADBOARD PROJECTS—BOOK 1 | BP107
£2.95 | **R. A. Penfold**

Each project, which is designed to be built on a "Verobloc" breadboard, is presented in a similar fashion with a brief circuit description, circuit diagram, component layout diagram, components list and notes on construction and use where necessary. Wherever

possible, the components used are common to several projects, hence with only a modest number of reasonably inexpensive components, it is possible to build in turn, every project shown. Recommended by BICC-VERO.
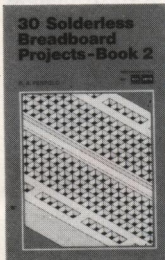
| 0 85934 082 1 | 1982 | 178 x 111 mm | 160 pages |

30 SOLDERLESS BREADBOARD PROJECTS—BOOK 2
BP113
£2.25
R. A. Penfold

The companion volume to Book 1 (BP107) and presented in exactly the same style using "Verobloc". However, all the projects in this book are based on CMOS logic integrated circuits, whereas those in the first book were all designed using linear devices. The information contained in Book 1 about identifying components and using breadboards is not repeated here so that it is suggested that the absolute beginner starts with the first book Recommended by BICC-VERO.

| 0 85934 088 0 | 1983 | 178 x 111 mm | 160 pages |

2.2 GENERAL ASSORTED
See also book numbers BP117 and BP118

POPULAR ELECTRONIC CIRCUITS—BOOK 1
BP80
£2.95
R. A. Penfold

Contains a wide range of circuits which are accompanied by a short text giving a brief introduction, circuit description and any special notes on construction and setting-up that may be necessary.

| 0 85934 055 4 | 1980 | 178 x 111 mm | 160 pages |

POPULAR ELECTRONIC CIRCUITS—BOOK 2
BP98
£2.95
R. A. Penfold

Again, provides a wide range of designs for electronic enthusiasts who are capable of producing working projects from just a circuit diagram without the aid of detailed constructional information. However, where relevant, any special setting-up procedures are described.

| 0 85934 073 2 | 1982 | 178 x 111 mm | 160 pages |

POPULAR ELECTRONIC PROJECTS
BP49
£2.50
R. A. Penfold

Provides a collection of the most popular types of circuits and projects covering a very wide range of interests, including Radio, Audio, Household and Test Equipment projects.

| 0 85934 053 8 | 1978 | 178 x 111 mm | 144 pages |

2.3 COMPONENT SPECIFIC
See also book number 160

MODERN OP-AMP PROJECTS
BP106
£1.95
R. A. Penfold

Includes a wide range of constructional projects which make use of the specialised operational amplifiers that are available today, including low noise, low distortion, ultra-high input impedance, low slew rate and high output current types. Circuits using transconductance types are also included.

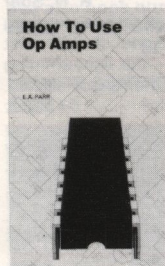| 0 85934 081 3 | 1982 | 178 x 111 mm | 112 pages |

HOW TO USE OP-AMPS
BP88
£2.95
E. A. Parr

This book has been written as a designer's guide covering many operational amplifiers, serving both as a source book of circuits and a reference book for design calculations. The approach has been made as non-mathematical as possible and it is hoped, easily understandable by most readers, be they engineers or hobbyists.

| 0 85934 063 5 | 1982 | 178 x 111 mm | 160 pages |

IC 555 PROJECTS
BP44
£2.95
E. A. Parr

Every so often a device appears that is so useful that one wonders how life went on before without it. The 555 timer is such a device. Included in this book are basic and general circuits, motorcar and model railway circuits, alarms and noise-makers as well as a section on the 556, 558 and 559 timers

| 0 85934 047 3 | 1982 | 178 x 111 mm | 176 pages |

A PRACTICAL INTRODUCTION TO DIGITAL ICs
225
£2.50
D. W. Easterling

Introduces the reader practically to digital ICs, this book is mainly concerned with the TTL types such as the 7400 series. Besides a number of simple projects, the author has included the full practical construction of a logic circuit test set which will enable the reader to identify and test his own digital ICs. Also included are the full constructional details and ways of using a more ambitious project — the digital counter timer.

| 0 900162 66 X | 1977 | 178 x 111 mm | 80 pages |

50 CIRCUITS USING 7400 SERIES ICs
BP58
£2.50
R. N. Soar

50 interesting and useful circuits and applications covering many different aspects of electronics using these freely obtainable, inexpensive and fantastically versatile series of devices.

| 0 900162 77 5 | 1979 | 178 x 111 mm | 80 pages |

DIGITAL IC PROJECTS
BP84
£1.95
F. G. Rayer

Contains both simple and more advanced projects and it is hoped that these will be found of help to the reader developing a knowledge of the workings of digital circuits.

To help the newcomer to the hobby, the author has included a number of board layouts and wiring diagrams. Also the more ambitious projects can be built and tested section by section and this should help avoid or correct faults that could otherwise be troublesome.

| 0 85934 059 7 | 1981 | 178 x 111 mm | 96 pages |

50 CIRCUITS USING GERMANIUM SILICON AND ZENER DIODES
BP36
£1.50
R. N. Soar

Contains 50 interesting and useful circuits and applications, covering many different branches of electronics, using one of the most simple and inexpensive of components — the diode. Includes the use of germanium and silicon signal diodes, silicon rectifier diodes and zener diodes, etc.

| 0 85934 039 2 | 1977 | 178 x 111 mm | 64 pages |

50 SIMPLE LED CIRCUITS
£1.95   **BP42**
    R. N. Soar

Contains 50 interesting and useful circuits and applications, covering many different branches of electronics, using one of the most inexpensive and freely available components — the light-emitting diode (LED). Also includes circuits for the 707 common anode display.

| 0 85934 043 4 | 1977 | 178 x 111 mm | 64 pages |

50 SIMPLE LED CIRCUITS—BOOK 2
£1.35   **BP87**
    R. N. Soar

A further range of uses for the simple LED which complements those shown in book number BP42.

| 0 85934 062 7 | 1981 | 178 x 111 mm | 64 pages |

50 PROJECTS USING RELAYS, SCRs AND TRIACs
£2.95   **BP37**
    F. G. Rayer

Relays, silicon controlled rectifiers (SCR's) and bi-directional triodes (TRIAC's) have a wide range of applications in electronics. These may extend over the whole field of motor control; dimming and heat control; delayed, timing and light sensitive circuits and include warning devices, various novelties, light modulators, priority indicators, excess voltage breakers etc. This book gives tried and practical working circuits which should present the minimum of difficulty for the enthusiast to construct. In most of the circuits there is a wide latitude in component values and types, allowing easy modification of circuits or ready adaptation of them to individual needs.

| 0 85934 040 6 | 1977 | 178 x 111 mm | 112 pages |

50 (FET) FIELD EFFECT TRANSISTOR PROJECTS
£2.95   **BP39**
    F. G. Rayer

Field-effect transistors (FETs) find applications in a wide variety of circuits. The projects described here include radio-frequency amplifiers and converters, test equipment and receiver radio-frequency amplifiers and converters, test equipment and receiver aids, tuners, receivers, mixers and tone controls, as well as various miscellaneous devices which are useful in the home.

The actual FET to be used, in most cases, is not critical and many suitable types will perform satisfactorily. The FET is a low-noise, high gain device with a multitude of uses, the dual gate being of particular use in mixers and other applications.

| 0 85934 042 2 | 1977 | 178 x 111 mm | 112 pages |

MINI-MATRIX BOARD PROJECTS
£2.50   **BP99**
    R. A. Penfold

Although there are obviously limitations to the amount of circuitry that can be accommodated on a small circuit board, the versatility of modern components is such that it is possible to design a wide range of projects that can be easily built using just a handful of components including the stripboard.

This book does just that, in providing a selection of 20 useful and interesting circuits, all that can be built on a mini-matrix board which is just 24 holes by 10 copper strips in size.

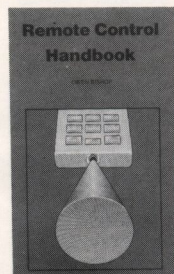| 0 85934 074 0 | 1982 | 178 x 111 mm | 112 pages |

2.4 SUBJECT SPECIFIC
See also book numbers 220, 222, 226, BP29, BP74, BP90, BP105, BP122, BP124, BP130, BP131, BP171, BP173, BP174, BP182, BP185, BP186, BP245, BP247, and BP253

REMOTE CONTROL HANDBOOK
£3.95   **BP240**
    O. Bishop

Replaces our original book BP73 and is aimed at the electronics enthusiast who wishes to experiment with remote control in its many aspects and forms.

| 0 85934 185 2 | 1988 | 178 x 111 mm | 240 pages |

ELECTRONIC CIRCUITS FOR THE COMPUTER CONTROL OF MODEL RAILWAYS
£2.95   **BP180**
    R. A. Penfold

Shows the reader practical ways of using a number of the more popular micros for controlling, running and adding effects to model railways.

| 0 85934 154 2 | 1987 | 178 x 111 mm | 96 pages |

ELECTRONIC CIRCUITS FOR THE COMPUTER CONTROL OF ROBOTS
£2.95   **BP179**
    R. A. Penfold

Provides information and circuits on computer control of electric motors (including stepper types), plus a range of useful sensors including visible light, infra-red, and ultrasonic types.

| 0 85934 153 4 | 1986 | 178 x 111 mm | 96 pages |

ELECTRONIC SCIENCE PROJECTS
£2.95   **BP104**
    O. Bishop

These projects range in complexity from a simple colour temperature meter to an infra-red laser. There are novelties such as an electronic clock regulated by resonating spring, and an oscilloscope with solid-state display. There are scientific measuring instruments such as a pH meter and an electro-cardiometer. All projects have a strong scientific flavour. The way they work, and how to build and use them are fully explained.

| 0 85934 079 1 | 1982 | 178 x 111 mm | 144 pages |

MODEL RAILWAY PROJECTS
£2.95   **BP95**
    R. A. Penfold

Provides a number of useful but reasonably simple projects for the model railway enthusiast to build, based on inexpensive and easily obtainable components.

The projects covered include such things as controllers, signal and sound effects units, and to help simplify construction, stripboard layouts are provided for each project.

| 0 85934 070 8 | 1981 | 178 x 111 mm | 112 pages |

ELECTRONIC PROJECTS FOR CARS AND BOATS
£1.95   **BP94**
    R. A. Penfold

Describes fifteen fairly simple projects for use with a car and/or boat. Each project has an explanation of how the circuit works as well as constructional details including a stripboard layout

| 0 85934 069 4 | 1981 | 178 x 111 mm | 96 pages |

ELECTRONICS SIMPLIFIED
—CRYSTAL SET CONSTRUCTION   **BP92**
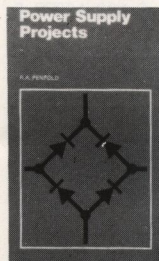**£1.75**   **F. A. Wilson**
Especially written for those who wish to participate in the intricacies of electronics more through practical construction than by theoretical study. It is designed for all ages upwards from the day one can read intelligently and handle simple tools.

| 0 85934 067 8 | 1982 | 178 x 111 mm | 80 pages |

POWER SUPPLY PROJECTS   **BP76**
£2.50   **R. A. Penfold**

Mains power supplies are an essential part of many electronic projects.

This book gives a number of power supply designs, including simple unstabilised types, fixed voltage regulated types, and variable-voltage stabilised designs, the latter being primarily intended for use as bench supplies for the electronics workshop. The designs provided are all low-voltage types for semiconductor circuits.

The book should also help the reader to design his own power supplies.

There are other types of power supply apart from the mains to low voltage type and a number of these are dealt with in the final chapter, including a cassette power supply, ni-cad battery charger, voltage step-up circuit and a simple inverter.

| 0 900162 96 1 | 1980 | 178 x 111 mm | 96 pages |

MORE ADVANCED POWER SUPPLY PROJECTS   **BP192**
£2.95   **R. A. Penfold**
Covers more advanced topics than those dealt with in the original book BP76 and also covers developments since the original book was written.

Includes designs and circuitry for precision supplies, switch mode power supplies and computer controlled supplies as well as a number of miscellaneous circuits.

| 0 85934 166 6 | 1988 | 178 x 111 mm | 96 pages |

TEST EQUIPMENT CONSTRUCTION   **BP248**
£2.95   **R. A. Penfold**
Shows you how to build a wide range of simple test equipment that will be useful in the pursuance of your hobby after you have had the enjoyment of constructing it.

| 0 85934 193 3 | 1989 | 178 x 111 mm | 112 pages |

MORE ADVANCED TEST EQUIPMENT
CONSTRUCTION   **BP249**
£2.95   **R. A. Penfold**
Follows on from book BP248 with constructional details of more advanced projects that will help you with your hobby.

| 0 85934 194 1 | 1989 | 178 x 111 mm | 96 pages |

ELECTRONIC GAMES   **BP69**
£1.75   **R. A. Penfold**
Contains a number of interesting electronic games projects all using modern integrated circuits. The text is divided into two sections, the first dealing with simple games and the latter dealing with more complex circuits thus making the book ideal for both beginner and more advanced enthusiast alike.

| 0 900162 90 2 | 1980 | 178 x 111 mm | 96 pages |

ELECTRONIC SECURITY DEVICES   **BP56**
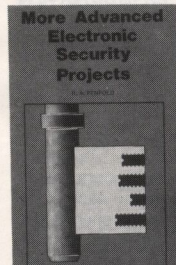**£2.50**   **R. A. Penfold**
This book, besides including both simple and more sophisticated burglar alarm circuits using light, infra-red and ultra-sonics, also includes many other types of circuit as well such as gas and smoke detectors, flood alarms, doorphone and baby alarms, etc.

| 0 900162 76 7 | 1979 | 178 x 111 mm | 112 pages |

MORE ADVANCED ELECTRONIC
SECURITY PROJECTS   **BP190**
£2.95   **R. A. Penfold**
Contains a number of more up-to-date and sophisticated projects, complete with PCB or stripboard layout, than our original book number BP56.

Covers:- Opto alarms including pyro-sensor, infra-red and fibre-optic loop types. A computer based system showing how a home micro fitted with a user port can form the basis of a sophisticated alarm and monitoring system. Various alarms using mercury switches, magnetic dependent resistors, doppler shift and capacity effect on an RF oscillator etc.

| 0 85934 164 X | 1988 | 178 x 111 mm | 112 pages |

PROJECTS IN OPTO-ELECTRONICS   **BP45**
£1.95   **R. A. Penfold**
Although many people tend to take opto-electronic devices and circuits for granted, it is hoped that this book will show even the most experienced reader that they can be used in a surprisingly wide range of applications.

The purpose of this book is to describe a number of projects which may be of interest to all electronics enthusiasts. Included are simple circuits using ordinary light emitting diodes (LEDs) as well as more sophisticated designs such as infra-red transmitters and detectors, modulated light transmission and also photographic projects, etc.

| 0 85934 049 X | 1978 | 178 x 111 mm | 112 pages |

MODERN OPTO DEVICE PROJECTS   **BP194**
£2.95   **R. A. Penfold**
Provides a number of circuits using more modern devices than book number BP45.

Includes designs for:- simple fibre optic audio link; opto type circuit for RS232C type data transmission and reception; light pen for BBC, Atari, Commodore and Amstrad computers; presence detector; broken beam detector; infra red reflected light sensor; LED stroboscope; etc. PCB layouts are included for more critical designs.
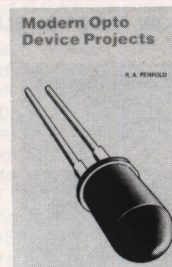
| 0 85934 168 2 | 1987 | 178 x 111 mm | 96 pages |

SOLID STATE NOVELTY PROJECTS   **219**
£0.85   **M. H. Babani**
The reader is shown how to build a number of different novelty projects using ICs and transistors. Included are the "Optomin", a musical instrument that is played by reflecting a light beam with your hand, water warbler for pot plants, musical tone generator, LEDs and ladders game, touch switch, electronic roulette wheel, etc.
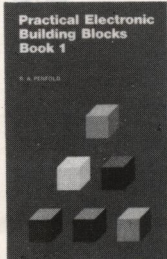
| 0 900162 60 0 | 1976 | 178 x 111 mm | 96 pages |

2.5 METHODS OF DESIGN & CONSTRUCTION

PRACTICAL ELECTRONIC   **BP117**
   BUILDING BLOCKS—BOOK 1   **£1.95**
PRACTICAL ELECTRONIC   **BP118**
   BUILDING BLOCKS—BOOK 2   **£1.95**
    R. A. Penfold

Virtually any electronic circuit will be found to consist of a number of distinct stages when analysed. Some circuits inevitably have unusual stages using specialised circuitry, but in most cases circuits are built up from electronic building blocks of standard types. These books are designed to aid electronic enthusiasts who like to experiment with circuits and produce their own projects, rather than simply following published project designs. The circuits for a number of building blocks are included in each book, and component values and type numbers are provided in each case. Where relevant, details of how to change the parameters of each circuit (voltage gain of amplifiers, cut-off frequencies of filters, etc.) are given so that they can be easily modified to suit individual requirements. No difficult mathematics is involved.

BOOK 1 contains: Oscillators—sinewave, triangular, square-wave, sawtooth, and pulse waveform generators operating at audio frequencies, including simple voltage-controlled types, L-C and crystal RF oscillators. Timers — simple monostable circuits using ICs, and 555 and 7555 devices, etc. Also precision long timers using the ZN1034E. Miscellaneous — noise generators, rectifiers, comparators and triggers, etc.

BOOK 2 contains: Amplifiers — low level discrete and op-amp circuits, voltage and buffer amplifiers including DC types. Also low-noise audio and voltage controlled amplifiers. Filters — high-pass, low-pass, 6, 12, and 24 dB per octave types. Also voltage controlled filters. Miscellaneous — IC power amplifiers, mixers, voltage and current regulators, etc.

Book 1: 0 85934 092 9   *1983*   *178 x 111 mm*   *128 pages*
Book 2: 0 85934 093 7   *1983*   *178 x 111 mm*   *112 pages*

HOW TO DESIGN ELECTRONIC PROJECTS   **BP127**
£2.25   **R. A. Penfold**

The aim of this book is to help the reader to put together projects from standard building blocks with a minimum of trial and error, but without resorting to any advanced mathematics. Hints on designing circuit blocks to meet your special requirements where no "stock" design is available are also provided. The subject is tackled by taking a series of simple practical examples, analysing exactly what each circuit must do, exploring possible methods of achieving each circuit action, and then working out practical designs including all circuit values. Thus a number of useful circuits are provided in addition to project design advice.

0 85934 102 X   *1983*   *178 x 111 mm*   *128 pages*

HOW TO DESIGN AND MAKE YOUR OWN PCBs   **BP121**
£2.50   **R. A. Penfold**

Chapter 1 deals with the simple methods of copying printed circuit board designs from magazines and books and covers all aspects of simple PCB construction as comprehensively as possible.

Chapter 2 covers photographic methods of producing PCB's and Chapter 3 deals with most aspects of designing your own printed circuit board layouts.

0 85934 096 1   *1983*   *178 x 111 mm*   *80 pages*

3. S.W., AMATEUR RADIO & COMMUNICATIONS

See also book numbers BP105, BP125, BP132, BP136, BP145, BP195 and BP198

SOLID STATE SHORT WAVE RECEIVERS   **222**
FOR BEGINNERS   **R. A. Penfold**

Contains the designs and building details of several solid state short wave receivers that will give a fairly high level of performance, despite the fact that they use only relatively few and inexpensive components.

0 900162 62 7   *1976*   *178 x 111 mm*   *96 pages*

HOW TO BUILD ADVANCED   **226**
SHORT WAVE RECEIVERS
£2.95   **R. A. Penfold**

Gives the reader full practical constructional details of a number of advanced design receivers which should have levels of performance at least equal to that of commercially built sets of similar complexity.

Also includes a number of add-on circuits such as Q-multiplier, s-meter, noise limiter, etc., which can be used to aid and improve reception when using receivers.
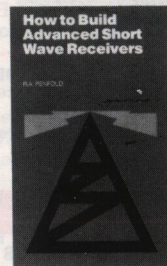
0 900162 67 8   *1977*   *178 x 111 mm*   *128 pages*

COMMUNICATION   **BP89**
(Elements of Electronics—Book 5)
£2.95   **F. A. Wilson**

A look at the electronic fundamentals over the whole of the communication scene. This book aims to teach the important elements of each branch of the subject in a style as interesting and practical as possible. While not getting involved in the more complicated theory and mathematics, most of the modern transmission system techniques are examined including line, microwave, submarine, satellite and digital multiplex systems, radio and telegraphy. To assist in understanding these more thoroughly, chapters on signal processing, the electromagnetic wave, networks and transmission assessment are included, finally a short chapter on optical transmission. Preparing the way, the opening chapter looks at the very heart of communication, including channel capacity, information flow, cables and electro-acoustic transducers.

Books 1–4 and 6 in this series are described in the catalogue under book numbers BP62, BP63, BP64, BP77 and BP111.

0 85934 064 3   *1981*   *178 x 111 mm*   *256 pages*

AN INTRODUCTION TO RADIO DXING   **BP91**
£1.95   **R. A. Penfold**

Anyone can switch on a short wave receiver and play with the controls until they pick up something, but to find a particular station, country or type of broadcast and to receive it as clearly as possible with the minimum of distortion and interference requires a little more skill and knowledge. The object of this book is to help the reader do just that, which in essence is the fascinating hobby of radio DXing.

0 85934 066 X   *1981*   *178 x 111 mm*   *112 pages*

AN INTRODUCTION TO AMATEUR RADIO
BP257
£2.95
I. Poole
Gets you started with the fascinating hobby that enthrals so many people the world over.

| 0 85934 202 6 | 1989 | 178 x 111 mm | 96 pages |

### INTERNATIONAL RADIO STATIONS GUIDE
BP255
£4.95
P. Shore
Totally revised and rewritten to replace the previous edition (BP155), this book contains considerably more information which is now divided into the following thirteen sections:-

1–Listening to SW Radio
2–ITU Country Codes
3–Worldwide SW Stations
4–European, Middle East & N. African LW Stations
5–European, Near East & N. African MW Stations
6–Canadian MW Stations
7–USA MW Stations
8–Broadcasts in English
9–Programmes for DXer's & SW Listeners
10–UK FM Stations
11–Time Diiferences from GMT
12–Abbreviations
13–Wavelength/Frequency Conversion
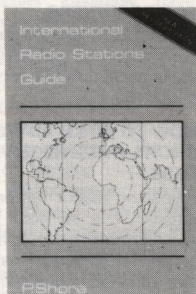
| 0 85934 200 X | 1988 | 198 x 130 mm | 320 pages |

AERIAL PROJECTS
BP105
£2.50
R. A. Penfold
Whether you have built a very simple short wave receiver or have purchased a most sophisticated piece of equipment, the performance you achieve will ultimately depend on the aerial to which your set is connected.

The subject of aerials is vast but in this book the author has considered practical aerial designs, including active, loop and ferrite aerials which give good performances and are relatively simple and inexpensive to build. The complex theory and mathematics of aerial design have been avoided.

Also included are constructional details of a number of aerial accessories including a pre-selector, attenuator, filters and tuning unit.

| 0 85934 080 5 | 1982 | 178 x 111 mm | 96 pages |

25 SIMPLE AMATEUR BAND AERIALS
BP125
£1.95
E. M. Noll
This concise book describes how to build 25 amateur band aerials that are simple and inexpensive to construct and perform well. The designs start with the simple dipole and proceed to beam, triangle and even a mini-rhombic made from four TV masts and about 400 feet of wire.

After the aerial discussion you will find a complete set of dimension tables that will help you spot an aerial on a particular frequency. Dimensions are given for various style aerials and other data needed for spacing and cutting phasing lengths. Also included are dimensions for the new WARC bands.

| 0 85934 100 3 | 1983 | 178 x 111 mm | 80 pages |

25 SIMPLE SHORTWAVE BROADCAST BAND AERIALS
BP132
£1.95
E. M. Noll
Fortunately good aerials can be erected at low cost, and for a small fractional part of the cost of your receiving equipment.

This book tells the story. A series of 25 aerials of many different types are covered, ranging from a simple dipole through helical designs to a multi-band umbrella.

| 0 85934 107 0 | 1984 | 178 x 111 mm | 80 pages |

25 SIMPLE INDOOR AND WINDOW AERIALS
BP136
£1.75
E. M. Noll
Written for those people who live in flats or have no gardens or other space-limiting restrictions which prevent them from constructing a conventional aerial system.

The 25 aerials included in this book have been especially designed, built and tested by Mr. Noll to be sure performers and give surprisingly good results considering their limited dimensions.

| 0 85934 111 9 | 1984 | 178 x 111 mm | 64 pages |

25 SIMPLE TROPICAL AND MW BAND AERIALS
BP145
£1.75
E. M. Noll
Shows you how to build 25 simple and inexpensive aerials for operation on the medium wave broadcast band and on 60, 75, 90 and 120 metre tropical bands. Designs for the 49 metre band are included as well.
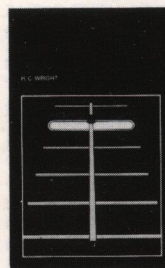
| 0 85934 120 8 | 1984 | 178 x 111 mm | 64 pages |

AN INTRODUCTION TO ANTENNA THEORY
BP198
H. C. Wright
£2.95
Deals with the basic concepts relevant to receiving and transmitting antennas in a manner which emphasises the mechanism involved and with strong diagramatic support minimises the mathematics used.

The bibliography provided offers the next stage of reading and understanding, while the outline set of original papers listed should allow a particular interest to be followed up in detail.

| 0 85934 173 9 | 1987 | 178 x 111 mm | 96 pages |

See also book number BP120

DIGITAL AUDIO PROJECTS
BP245
£2.95
R. A. Penfold
Contains practical details of how to construct a number of projects which fall into the "Digital Audio" category which should be of interest to most audio and electronic music enthusiasts.

| 0 85934 190 9 | 1988 | 178 x 111 mm | 96 pages |

HI-FI LOUDSPEAKER ENCLOSURES
205
£2.95
B. B. Babani
Completely reset and redrawn, this book gives data for building most types of loudspeaker enclosures. Includes corner reflex, bass reflex, exponential horn, folded horn, tuned port, klipschorn labyrinth, tuned column, loaded port and multi-speaker panoramic. Many clear dia-

grams for every type of construction showing the dimensions necessary.

| 0 900162 39 2 | 1974 | 178 x 111 mm | 96 pages |

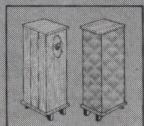## AN INTRODUCTION TO LOUDSPEAKERS AND ENCLOSURE DESIGN
BP256

£2.95
V. Capel

All you need to know about the theory and operation of loudspeakers and the various types of boxes that they may be fitted into.

Also includes the complete design and constructional details of how to make an inexpensive but high quality enclosure called the "Kapellmeister".

| 0 85934 201 8 | 1988 | 178 x 111 mm | 160 pages |

AUDIO
BP111

(Elements of Electronics—Book 6)

£3.95
F. A. Wilson

Analysis of the sound wave and an explanation of acoustical quantities prepare the way. These are followed by a study of the mechanism of hearing and examination of the various sounds we hear. A look at room acoustics with a subsequent chapter on microphones and loudspeakers then sets the scene for the main chapter on audio systems, amplifiers, oscillators, disc and magnetic recording and electronic music.

Books 1–5 in this series are described in this catalogue under the book numbers BP62, BP63, BP64, BP77 and BP89.

| 0 85934 086 4 | 1985 | 178 x 111 mm | 320 pages |

AUDIO PROJECTS
BP90

£2.50
F. G. Rayer

This book covers in detail the construction of a wide range of audio projects. The text has been divided into the following main sections: Pre-amplifiers and Mixers, Power Amplifiers, Tone Controls and Matching, Miscellaneous Projects.

All the projects are fairly simple to build and to assist the newcomer to the hobby, the author has included a number of board layouts and wiring diagrams.

| 0 85934 065 1 | 1981 | 178 x 111 mm | 96 pages |

AUDIO AMPLIFIER CONSTRUCTION
BP122

£2.25
R. A. Penfold

The following practical designs are featured and include circuit diagram and description, Veroboard or PCB layout and any necessary constructional or setting-up notes.

Chapter 1 — Preamplifiers: versatile microphone type based on the NE5534; tape type using the LM3802; RIAA pre amp; simple guitar pre amp; ceramic or crystal pick-up type; active tone controls using a LF351; general purpose pre amp.

Chapter 2 — Power amplifiers: simple low power battery type using a 2283 IC; 2 watt using the TBA820; 8 watt using the TDA2030; 16 watt 12 volt P.A. amplifier; 20 watt using a MOSFET output stage; 100 watt D.C. coupled amplifier using four MOSFETs in the output stage.

| 0 85934 097 X | 1983 | 178 x 111 mm | 128 pages |

CHOOSING AND USING YOUR HI-FI
BP68

£1.65
M. L. Jay

Provides the fundamental information necessary to make a satisfactory choice from the extensive range of hi-fi equipment now on the market.

Help is given to the reader in understanding the technical specifications of the equipment he is interested in buying and the author also gives his own opinion of the minimum standards and specifications one should look for to obtain high-fidelity sound reproduction.

The latter sections of this book offers useful advice on how to use your hi-fi properly so as to realise its potential to the full and also on buying your equipment. A glossary of terms is also included.

| 0 900162 89 9 | 1980 | 178 x 111 mm | 96 pages |

MAJOR SOLID STATE AUDIO HI-FI CONSTRUCTION PROJECTS
BP29

£0.85
B. B. Babani

This book covers three projects for the more experienced constructor, these are a 12.5 W per channel stereo amplifier, 8-input stereo/mono mixer, 4x4 W quadraphonic amplifier. Each project is split into sections and full constructional details are provided.

| 0 85934 032 5 | 1976 | 178 x 111 mm | 96 pages |

BUILD YOUR OWN SOLID STATE HI-FI AND AUDIO ACCESSORIES
220

£0.85
M. H. Babani

The design and construction of many useful projects are covered including: stereo decoder, three-channel stereo mixer, FET preamplifier for ceramic PUs, microphone pre-amp with adjustable bass response, stereo dynamic noise filter, loudspeaker protector, voice-operated relay, etc.

| 0 900162 61 9 | 1976 | 178 x 111 mm | 96 pages |

AUDIO ENTHUSIAST'S HANDBOOK
214

£0.85
B. B. Babani

Discusses a number of audio and hi-fi topics including record/playback curves, stylus compliance, disc recordings — then and now, how do we evaluate loudness, how compatible is compatible, acoustic feedback, what is hi-fi and how does it relate to stereo, stereo tape track standards, equipment performance figures, tracking error — cause, effect and cure, etc.

| 0 900162 56 2 | 1975 | 178 x 111 mm | 96 pages |

PRACTICAL STEREO AND QUADROPHONY HANDBOOK
**208**

£0.75
B. B. Babani

A reference book for all interested in modern stereophonic and multisound channel equipment. The subjects covered include explanations of many of the technical terms used in this audio field, stereo equipment and techniques, positioning of multiple loudspeakers for best results, stereo and four-channel pick-ups. etc.

| 0 900162 43 0 | 1975 | 178 x 111 mm | 96 pages |

FROM ATOMS TO AMPERES — BP254
£3.50 — F. A. Wilson
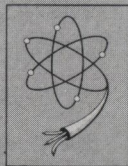
Explains in crystal clear terms the absolute fundamentals behind the whole of Electricity and Electronics. Really helps you to understand the basis of the subject perhaps for the first time ever.

| 0 85934 199 2 | 1989 | 178 x 111 mm | 256 pages |

ESSENTIAL THEORY FOR THE ELECTRONICS HOBBYIST — 228
£2.50 — G. T. Rubaroe

Written to supply the hobbyist with a background knowledge tailored to meet his or her specific requirements and the author has brought together the relevant material and presented it in a readable manner with minimum recourse to mathematics.

Many formulae having a practical bearing are presented in this book and purpose designed examples are employed to illustrate their applications.

| 0 900162 69 4 | 1977 | 178 x 111 mm | 128 pages |

PRACTICAL ELECTRONICS CALCULATIONS AND FORMULAE — BP53
£3.95 — F. A. Wilson
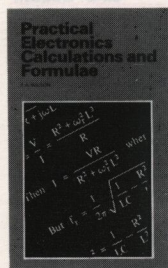
Written for the electronics enthusiast's workshop bench. Its aim is to bridge the gap between complicated technical theory, and "cut-and-tried" methods which may bring success in design but leave the experimenter unfulfilled.

There is, therefore, a strong practical bias — tedious and higher mathematics have been avoided where possible and many tables have been included, partly to save calculation and partly because actual figures bring a greater intimacy with the design process. As a reference book, sections have been written to be as self-contained as possible. The book is divided into six basic sections: Units and Constants, Direct-current Circuits, Passive Components, Alternating-current Circuits, Networks and Theorems, Measurements.

| 0 900162 70 8 | 1979 | 178 x 111 mm | 256 pages |

FURTHER PRACTICAL ELECTRONICS CALCULATIONS AND FORMULAE — BP144
£4.95 — F. A. Wilson

Written in the same style as the first book (BP53) and with the same objectives in mind, this book is divided into the following fourteen sections: Electricity, Electrostatics, Electromagnetism, Complex numbers, Amplifiers, Signal Generation and Processing, Communication, Statistics, Reliability, Audio, Radio, Transmission Lines, Digital Logic and Power Supplies.

| 0 85934 119 4 | 1986 | 178 x 111 mm | 464 pages |

THE SIMPLE ELECTRONIC CIRCUIT AND COMPONENTS — BP62
ALTERNATING CURRENT THEORY — BP63
SEMICONDUCTOR TECHNOLOGY — BP64
(Elements of Electronics — Books 1, 2 and 3 respectively)
F. A. Wilson — **[each] £3.50**

The aim of this series of books can be stated quite simply—it is to provide an inexpensive introduction to modern electronics so that the reader will start on the right road by thoroughly understanding the fundamental principles involved.

That the books are inexpensive is perhaps obvious. By accepting their modest size the total information is that which in normal-size text books would cost some 2 to 3 times as much.

Although written especially for readers with no more than ordinary arithmetical skills, the use of mathematics is not avoided, and all mathematics required is taught as the reader progresses. There is little doubt that some skill in electronics and mathematics will be an asset to almost everybody in the future, destined as we are to be controlled more and more by computers, microprocessors and the like. There is also much to offer those who need revision or to be brought up to date with fundamentals, those with grown-up children asking difficult questions or preparing for entry to a college or even those who may find a different approach refreshing.

The course is not written to a specific syllabus but concentrates on the understanding of the important concepts central to electronics rather than continually digressing over the whole field on the basis that once the fundamentals are mastered, the technicalities of most other things are soon revealed. The author anticipates where the difficulties lie and hopefully guides the reader through them.

Each book is a complete treatise of a particular branch of the subject and, therefore, can be used on its own with one proviso, that the later books do not duplicate material from their predecessors, thus a working knowledge of the subjects covered by the earlier books is assumed.

BOOK 1: This book contains all the fundamental theory necessary to lead to a full understanding of the simple electronic circuit and its main components.

BOOK 2: This book continues with alternating current theory without which there can be no comprehension of speech, music, radio, television or even the electricity mains.

BOOK 3: Follows on semiconductor technology, leading up to transistors and integrated circuits.

Books 1-3 therefore constitute a complete but inexpensive basic electronic theory course of inestimable help in either career or hobby. Other books are on specialised electronic subjects — they are all built on this earlier groundwork

Book 4: *Microprocessing Systems and Circuits* is described in the catalogue under book number BP77;

Book 5: *Communication* under book number BP89;

Book 6: *Audio* under book number BP111.

Book 1: 0 900162 82 1	1979	178 x 111 mm	224 pages
Book 2: 0 900162 83 X	1979	178 x 111 mm	224 pages
Book 3: 0 900162 84 8	1979	178 x 111 mm	224 pages

COIL DESIGN AND CONSTRUCTION MANUAL
160
£2.50
B. B. Babani

A complete book for the home constructor on "how to make" RF, IF, audio and power coils, chokes and transformers. Practically every possible type is discussed and calculations necessary are given and explained in detail. All mathematical data is simplified for use by everyone.

0 85934 050 3   1960   178 x 111 mm   96 pages

7. ELECTRONIC & COMPUTER MUSIC

ELECTRONIC MUSIC PROJECTS
BP74
£2.50
R. A. Penfold

Provides the constructor with a number of practical circuits for the less complex items of electronic music equipment, including such things as fuzz box, waa-waa pedal, sustain unit, reverberation and phaser units, tremelo generator, etc.

The text is divided into four chapters as follows: Chapter 1, Guitar Effects Units; Chapter 2, General Effects Units; Chapter 3, Sound Generator Projects; Chapter 4, Accessories.

0 900162 94 5   1980   178 x 111 mm   112 pages

MORE ADVANCED ELECTRONIC MUSIC PROJECTS
BP174
£2.95
R. A. Penfold

Intended to complement the first book (BP74) by carrying on where it left off and providing a range of slightly more advanced and complex projects. Included are popular effects units such as flanger, phaser, mini-chorus and ring-modulator units. Some useful percussion synthesisers are also described and together these provide a comprehensive range of effects including drum, cymbal and gong-type sounds.

0 85934 148 8   1986   178 x 111 mm   96 pages

MUSICAL APPLICATIONS OF THE ATARI ST's
BP246
£5.95
R. A. & J. W. Penfold
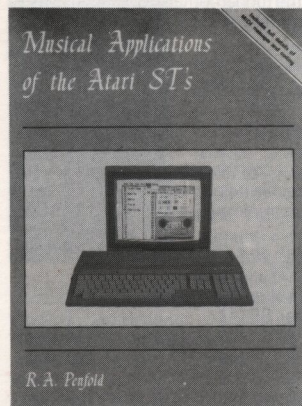
The Atari ST's are fast becoming the first choice of computer for the electronic music enthusiast due to their relatively low cost and MIDI interface. The Penfolds show you how to make the most of these machines musically, with simple add-on circuits and program routines.

0 85934 191 7   1988   264 x 195 mm   96 pages

COMPUTER MUSIC PROJECTS
BP173
£2.95
R. A. Penfold

Shows some of the ways a home computer can be used to good effect in the production of electronic music. Topics covered include sequencing and control via analogue and MIDI interfaces, computers as digital delay lines and sound generators for computer control.

0 85934 147 X   1985   178 x 111 mm   112 pages

7. ELECTRONIC & COMPUTER MUSIC

MIDI PROJECTS
BP182
£2.95
R. A. Penfold

Provides practical details of how to interface many popular home computers with MIDI systems. Also covers interfacing MIDI equipment to analogue and percussion synthesisers.

0 85934 156 9   1986   178 x 111 mm   112 pages

MORE ADVANCED MIDI PROJECTS
BP247
£2.95
R. A. Penfold

Carries on where book BP182 left off by providing constructional details of some more advanced and sophisticated projects such as a mixer, merge unit and harmoniser etc.

0 85934 192 5   1989   178 x 111 mm   96 pages

ELECTRONIC SYNTHESISER CONSTRUCTION
BP185
£2.95
R. A. Penfold

Should enable a relative beginner to build, with the minimum of difficulty and at reasonably low cost a worthwhile mono-phonic synthesiser, and also learn a great deal about electronic music synthesis in the process. This is achieved by considering and building the various individual parts of the circuit that comprise the whole instrument as separate units, which can then be combined together to form the final synthesiser. Printed circuit designs are provided for these main modules. Later chapters deal with sequencing and some effects units.

0 85934 159 3   1986   178 x 111 mm   112 pages

8. TV, VIDEO & SATELLITES

A TV-DXERS HANDBOOK
BPI76
£5.95
R. Bunney
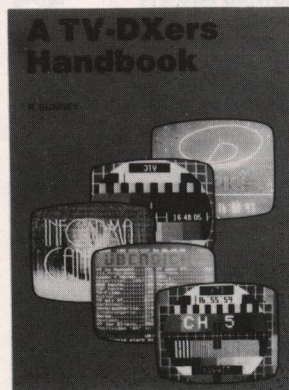
Completely revised and updated by Roger Bunney who is probably one of the leading authorities in this country on the subject. Includes many units and devices which have been designed and used by active enthusiasts, and often, considerable ingenuity and thought have gone into the development of such units to overcome individual problems.

A practical and authoritative reference to this unusual aspect of electronics.

0 85934 150 X   1986   264 x 195 mm   128 pages

8. TV, VIDEO & SATELLITES

AN INTRODUCTION TO SATELLITE TELEVISION
£5.95
BP195
F. A. Wilson

As a definitive introduction to the subject this book is presented on two levels. For the absolute beginner with no previous knowledge, the story is told as simply as it can be in the main text.

For the professional engineer, electronics enthusiast, student or others with technical backgrounds, there are numerous appendices backing up the main text with additional technical and scientific details, formulae, calculations and tables etc.

There is also much for the DIY enthusiast, with practical advice on choosing and installing the most problematic part of the system - the dish antenna.

0 85934 169 0 (Revised Edition) 1989 264 x 195 mm 112 pages
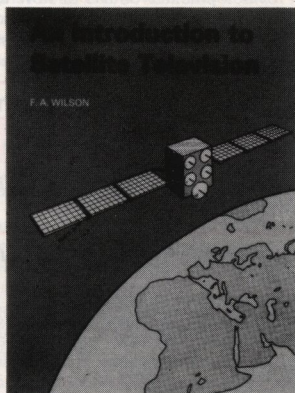
9. COMPUTERS AND COMPUTING

9.1 MACHINE SPECIFIC
See also book numbers BP124, BP149, BP171, BP199, BP243, BP244, BP246 and BP268

AN INTRODUCTION TO THE AMSTRAD PC's
£5.95
BP197
R. A. & J. W. Penfold

Using a business computer, as sophisticated as the PC1512 or 1640 is a lot less difficult than most people seem to imagine. The purpose of this book is to give inexperienced users an insight into what is involved in operating the machine and to highlight the particular features and facilities that the PC's supports.

0 85934 172 0   1987   264 x 195 mm   80 pages

A PRACTICAL REFERENCE GUIDE TO WORD PROCESSING ON THE AMSTRAD
PCW 8256 and PCW 8512
£5.95
BP187

F. A. Wilson
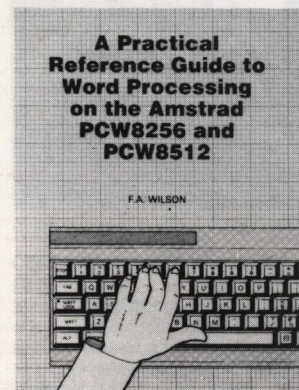
Amstrad have now brought word processing within the reach of everyone. These PCW's are capable of manipulating letters and words in practically every conceivable way and what can be achieved with them is only limited by the ingenuity of the user.

With such sophistication it comes as no surprise to find that each model is accompanied by two bulky instruction manuals likely at first to discourage even the most diligent. The information you are likely to need is probably in there somewhere, or is it? Finding it and understanding how to use it may well be another story!

Qty.	No.	Page	Title	Price
__	BP92	8	Electronics Simplified— Crystal Set Construction	£1.75
__	BP94	7	Electronic Projects for Cars and Boats	£1.95
__	BP95	7	Model Railway Projects	£2.95
__	BP97	3	IC Projects for Beginners	£1.95
__	BP98	4	Popular Electronic Circuits — Book 2	£2.95
__	BP99	6	Mini-matrix Board Projects	£2.50
__	BP101	2	How to Identify Unmarked ICs	£0.95
__	BP104	7	Electronic Science Projects	£2.95
__	BP105	12	Aerial Projects	£2.50
__	BP106	4	Modern Op-amp Projects	£1.95
__	BP107	3	30 Solderless Breadboard Projects—Book 1	£2.95
__	BP108	2	International Diode Equivalents Guide	£2.25
__	BP109	24	The Art of Programming the 1K ZX81	£1.95
__	BP110	33	How to Get Your Electronic Projects Working	£2.50
__	BP111	14	Audio (Elements of Electronics — Book 6)	£3.95
__	BP112	25	A Z-80 Workshop Manual	£3.50
__	BP113	4	30 Solderless Breadboard Projects—Book 2	£2.25
__	BP114	24	The Art of Programming the 16K ZX81	£2.50
__	BP115	32	The Pre-computer Book	£1.95
__	BP117	10	Practical Elec. Building Blocks — Book 1	£1.95
__	BP118	10	Practical Elec. Building Blocks — Book 2	£1.95
__	BP119	23	The Art of Programming the ZX Spectrum	£2.50
__	BP120	34	Audio Amplifier Fault-finding Chart	£0.95
__	BP121	10	How to Design and Make Your Own PCB's	£2.50
__	BP122	14	Audio Amplifier Construction	£2.25
__	BP124	31	Easy Add-on Projects for Spectrum, ZX81 & Ace	£2.95
__	BP125	12	25 Simple Amateur Band Aerials	£1.95
__	BP126	28	BASIC & PASCAL in Parallel	£1.50
__	BP127	10	How to Design Electronic Projects	£2.25
__	BP128	24	20 Programs for the ZX Spectrum and 16K ZX81	£1.95
__	BP129	24	An Intro. to Programming the ORIC-1	£1.95
__	BP130	31	Micro Interfacing Circuits — Book 1	£2.25
__	BP131	31	Micro Interfacing Circuits — Book 2	£2.75
__	BP132	12	25 Simple SW Broadcast Band Aerials	£1.95
__	BP133	24	An Intro. to Programming the Dragon 32	£1.95
__	BP135	23	Secrets of the Commodore 64	£1.95
__	BP136	13	25 Simple Indoor and Window Aerials	£1.75
__	BP137	28	BASIC & FORTRAN in Parallel	£1.95
__	BP138	28	BASIC & FORTH in Parallel	£1.95
__	BP139	22	An Introduction to Programming the BBC Model B Micro	£1.95
__	BP140	1	Digital IC Equivalents & Pin Connections	£5.95
__	BP141	1	Linear IC Equivalents & Pin Connections	£5.95
__	BP142	22	An Introduction to Programming the Acorn Electron	£1.95
__	BP143	22	An Introduction to Programming the Atari 600/800XL	£1.95
__	BP144	16	Further Practical Electronics Calculations and Formulae	£4.95
__	BP145	13	25 Simple Tropical and MW Band Aerials	£1.75
__	BP146	29	The Pre-BASIC Book	£2.95
__	BP147	25	An Introduction to 6502 Machine Code	£2.95
__	BP148	32	Computer Terminology Explained	£1.95
__	BP149	30	A Concise Introduction to the Language of BBC BASIC	£1.95
__	BP152	25	An Introduction to Z80 Machine Code	£2.75

Qty.	No.	Page	Title	Price
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__	BP154	24	An Introduction to MSX BASIC	£2.50
__	BP156	23	An Introduction to QL Machine Code	£2.50
__	BP157	24	How to Write ZX Spectrum and Spectrum+ Games Programs	£2.50
__	BP158	23	An Introduction to Programming the Commodore 16 and Plus 4	£2.50
__	BP159	21	How to Write Amstrad CPC 464 Games Programs	£2.50
__	BP161	23	Into the QL Archive	£2.50
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__	BP169	30	How to Get Your Computer Programs Running	£2.50
__	BP170	31	An Introduction to Computer Peripherals	£2.50
__	BP171	31	Easy Add-on Projects for Amstrad CPC 464, 664, 6128 and MSX Computers	£2.95
__	BP173	18	Computer Music Projects	£2.95
__	BP174	18	More Advanced Electronic Music Projects	£2.95
__	BP175	21	How to Write Word Game Programs for the Amstrad CPC 464, 664 and 6128	£2.95
__	BP176	19	A TV-DXers Handbook	£5.95
__	BP177	33	An Intro. to Computer Communications	£2.95
__	BP179	7	Electronic Circuits for the Computer Control of Robots	£2.95
__	BP180	7	Electronic Circuits for the Computer Control of Model Railways	£2.95
__	BP181	31	Getting the Most From Your Printer	£2.95
__	BP182	19	MIDI Projects	£2.95
__	BP183	27	An Introduction to CP/M	£2.95
__	BP184	25	An Introduction to 68000 Assembly Language	£2.95
__	BP185	19	Electronic Synthesiser Construction	£2.95
__	BP187	20	A Practical Reference Guide to Word Processing on the Amstrad PCW8256 & PCW8512	£5.95
__	BP188	21	Getting Started with BASIC and LOGO on the Amstrad PCWs	£5.95
__	BP189	22	Using Your Amstrad CPC Disc Drives	£2.95
__	BP190	9	More Advanced Electronic Security Projects	£2.95
__	BP191	22	Simple Applic. of the Am'd CPCs for Writers	£2.95
__	BP192	8	More Advanced Power Supply Projects	£2.95
__	BP193	29	LOGO for Beginners	£2.95
__	BP194	9	Modern Opto Device Projects	£2.95
__	BP195	20	An Introduction to Satellite Television	£5.95
__	BP196	29	BASIC & LOGO in Parallel	£2.95
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0 85934 161 5   1986   264 x 195 mm   192 pages

GETTING STARTED WITH BASIC AND LOGO ON THE AMSTRAD PCWs   BP188
£5.95   F. W. Wilson

The Amstrad PCW's are not only extremely versatile word processors, but when loaded with either Mallard BASIC or Dr LOGO they become extraordinarily powerful computers.

This is the book to help you take your first steps in computing on these machines and again is written, in crystal clear terms, to help explain and complement the manufacturers own manuals.

0 85934 162 3   1987   264 x 195 mm   80 pages

AN INTRODUCTION TO PROGRAMMING THE AMSTRAD CPC 464 AND 664   BP153
£2.50   R. A. & J. W. Penfold

The Amstrad CPC 464 or 664 running with Locomotive BASIC makes an extremely potent and versatile machine and this book is designed to help the reader get the most from this powerful combination. Written to complement rather than duplicate the information already given in the manufacturers own manual. Also applicable to the CPC 6128.
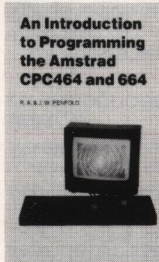
0 85934 128 3   1984   178 x 111 mm   144 pages

HOW TO WRITE AMSTRAD CPC 464 GAMES PROGRAMS   BP159
£2.50   W. Simister

Written as a step-by-step guide to help you write your own graphics games programs. Starts at the most simple level and progresses to a 3-Dimensional game. Also applicable to the CPC 664 and 6128 as well.

0 85934 134 8   1985   178 x 111 mm   144 pages

HOW TO WRITE WORD GAME PROGRAMS FOR THE AMSTRAD CPC 464, 664 AND 6128   BP175
£2.95   W. Simister

The excellent facilities of the Amstrad computers are of great help in handling the words or letters in the many programs in this book. Included are ways to sort words alphabetically, to scramble them into anagrams, to select letters from words for various purposes, to locate missing letters from words, to place letters randomly on the screen, and even ways to help in the writing or solving of crossword puzzles.

The many routines used for all these different ways of handling words or letters are clearly explained, and are inserted into programs in such a way that they can easily be extracted to be used in games of your own devising.

0 85934 149 6   1985   178 x 111 mm   112 pages

USING YOUR AMSTRAD CPC DISC DRIVES
BP189

£2.95
J. W. Penfold

Everything you are likely to need to know to enable you to get the maximum benefit and minimum of problems when using discs and disc drives on your Amstrad.

Covers such things as tracks, sectors and formatting; AMDOS and CP/M operating systems including rules and regulations, filing from BASIC, file copying and transfer; program development including MERGE and CHAIN MERGE; CP/M turnkey discs etc.

| 0 85934 163 1 | 1986 | 178 x 111 mm | 96 pages |

SIMPLE APPLICATIONS OF THE AMSTRAD CPCs
BP191
FOR WRITERS

£2.95
W. Simister
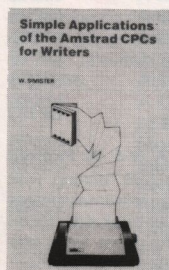
This book shows how an Amstrad CPC 464, 664 or 6128 with disc drives and DMP 1 or DMP 2000 printer can be turned into a simple but adequate word processor by using a BASIC program of only fifteen lines. Each of the program lines are dealt with in detail so that even someone with no knowledge of BASIC programming will be able to use it with the minimum of difficulty. The program should be fairly easily adaptable for use on other micros.

| 0 85934 165 8 | 1986 | 178 x 111 mm | 80 pages |

AN INTRODUCTION TO PROGRAMMING
BP143
THE ATARI 600/800 XL

£1.95
R. A. & J. W. Penfold

Especially written to supplement the manufacturer's own handbook. The information supplied will help the reader to master BASIC programming and to make best use of the ATARI's many powerful features.

| 0 85934 118 6 | 1984 | 178 x 111 mm | 128 pages |

AN INTRODUCTION TO PROGRAMMING
BP139
THE BBC MODEL B MICRO

£1.95
R. A. & J. W. Penfold

Written for readers wanting to learn more about programming and how to make best use of the incredibly powerful model B's versatile features. Most aspects of the BBC micro are covered, the omissions being where little could usefully be added to the information provided by the manufacturer's own manual.
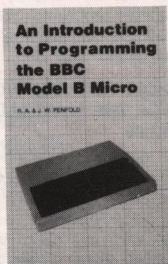
| 0 85934 114 3 | 1984 | 178 x 111 mm | 144 pages |

AN INTRODUCTION TO PROGRAMMING
BP142
THE ACORN ELECTRON

£1.95
R. A. & J. W. Penfold

Designed to help the reader learn more about programming and to make best use of the ELECTRON's many features. Adds considerably to the information already supplied in the manufacturer's own instruction manual.

| 0 85934 117 8 | 1984 | 178 x 111 mm | 144 pages |

SECRETS OF THE COMMODORE 64
BP135

£1.95
P. Cornes & A. Cross
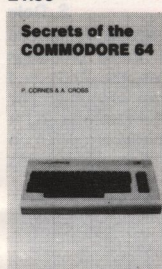
Gives information that will enable you to use facilities beyond those explained in the user's manual. Introduces many useful programming techniques and short program segments which can be incorporated into your own programs. Presents a set of machine code routines that you can enter which will add speed to such things as high resolution line drawings and making music, etc.

| 0 85934 110 0 | 1984 | 178 x 111 mm | 128 pages |

AN INTRODUCTION TO PROGRAMMING
BP158
THE COMMODORE 16 & PLUS 4

£2.50
R. A. Penfold

Helps you to learn to use and program these two Commodore machines with the minimum of difficulty by expanding and complementing the information supplied in the manufacturer's own manuals.

| 0 85934 133 X | 1985 | 178 x 111 mm | 128 pages |

AN INTRODUCTION TO QL MACHINE CODE
BP156

£2.50
R. A. & J. W. Penfold

Shows the reader how to get to the very "heart" of the QL by programming directly the 68008 chip. An obvious progression once you have mastered SuperBASIC.

| 0 85934 131 3 | 1985 | 178 x 111 mm | 96 pages |

INTO THE QL ARCHIVE
BP161

£2.50
J. W. Penfold

Gives the reader a better understanding in the use and application of the powerful database program QL Archive. A step-by-step approach has been adopted which also includes essentially practical examples.

| 0 85934 135 6 | 1985 | 178 x 111 mm | 96 pages |

COUNTING ON QL ABACUS
**BP162**

£2.50
J. W. Penfold

Shows the reader how to get the maximum use from the enormously powerful QL Abacus which is a practical spreadsheet-type of program. Useful for presenting and manipulating information and data in so many different ways.

| 0 85934 136 4 | 1986 | 178 x 111 mm | 96 pages |

THE ART OF PROGRAMMING
BP119
THE ZX SPECTRUM

£2.50
M. James

It is one thing to have learnt how to use all the Spectrum's commands and functions, but a very different one to be able to combine them into programs that do exactly what you want them to. This is just what this book is all about — teaching you the art of effective programming with your Spectrum.

| 0 85934 094 5 | 1983 | 178 x 111 mm | 144 pages |

20 PROGRAMS FOR THE ZX SPECTRUM AND 16K ZX81
BP128
£1.95
S. Daly
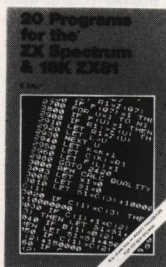
Don't be put off by the title if you are a non-Sinclair enthusiast. All these programs were written and tested on the ZX81 and Spectrum machines but most will run on any computer with a good BASIC interpreter and at least 5K of RAM. Copious notes are given on each of the programs including the changes required on non-Sinclair systems.

| 0 85934 103 8 | 1983 | 178 x 111 mm | 128 pages |

HOW TO WRITE ZX SPECTRUM AND SPECTRUM + GAMES PROGRAMS
BP157
£2.50
W. Simister

A crystal-clear step-by-step guide to writing your own graphics games programs, starting at the most simple level and progressing to a 3-D game.

| 0 85934 132 1 | 1985 | 178 x 111 mm | 128 pages |

THE ART OF PROGRAMMING THE 1K ZX81
BP109
£1.95
M. James & S. M. Gee

This book shows you how to use the features of the ZX81 in programs that fit into the 1K machine and are still fun to use.

| 0 85934 084 8 | 1982 | 178 x 111 mm | 96 pages |

THE ART OF PROGRAMMING THE 16K ZX81
BP114
£2.50
M. James & S. M. Gee

This book introduces the possibilities that are opened up by adding the 16K RAM pack to the ZX81.

| 0 85934 089 9 | 1982 | 178 x 111 mm | 144 pages |

AN INTRODUCTION TO MSX BASIC
BP154
£2.50
R. A. & J. W. Penfold

MSX BASIC is the so-called "universal" Japanese version of the BASIC language that will enable the same software to be simply run on machines manufactured by a number of different makers. This book helps you get to grips with this revolutionary and fascinating concept.

| 0 85934 129 1 | 1985 | 178 x 111 mm | 128 pages |

AN INTRODUCTION TO PROGRAMMING THE DRAGON 32
BP133
£1.95
R. A. & J. W. Penfold

A gradual approach that helps the reader get the most out of the DRAGON 32. Expands and supplements the user's handbook rather than simply duplicating it.

| 0 85934 108 9 | 1983 | 178 x 111 mm | 128 pages |

AN INTRODUCTION TO PROGRAMMING THE ORIC-1.
BP129
£1.95
R. A. & J. W. Penfold

Written for readers wanting to learn more about programming and how to make the best use of the ORIC-1 microcomputer's many powerful features. Most aspects of the ORIC-1 are covered; the omissions being where little could usefully be added to the information provided by the manufacturer's own manual.

| 0 85934 104 6 | 1983 | 178 x 111 mm | 112 pages |

9.2 CHIP SPECIFIC
See also book number BP156

A Z-80 WORKSHOP MANUAL
BP112
£3.50
E. A. Parr
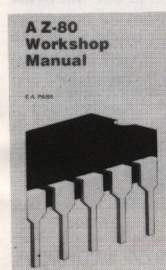
This book is intended for people who wish to progress beyond the stage of BASIC programming to topics such as machine code and assembly language programming, or need hardware details of a Z-80 based computer.

| 0 85934 087 2 | 1983 | 178 x 111 mm | 192 pages |

AN INTRODUCTION TO Z80 MACHINE CODE
BP152
£2.75
R. A. & J. W. Penfold

Takes the reader through the basics of micro-processors and machine code programming with no previous knowledge of these being assumed. The microprocessor dealt with is the Z80 which is used in many popular home computers and simple programming examples are given for Z-80 based machines including the Sinclair ZX-81 and Spectrum, Memotech and the Amstrad CPC 464. Also applicable to the Amstrad CPC 664 and 6128.

| 0 85934 127 5 | 1984 | 178 x 111 mm | 144 pages |

AN INTRODUCTION TO 6502 MACHINE CODE
BP147
£2.95
R. A. & J. W. Penfold

No previous knowledge of microprocessors or machine code is assumed. Topics covered are: assembly language and assemblers, the register set and memory, binary and hexadecimal numbering systems, addressing modes and the instruction set, and also mixing machine code with BASIC. Some simple programming examples are given for 6502-based home computers like the VIC-20, ORIC-1/Atmos, Electron, BBC and also the Commodore 64.

| 0 85934 122 4 | 1984 | 178 x 111 mm | 112 pages |

## AN INTRODUCTION TO 68000 ASSEMBLY LANGUAGE
BP184
£2.95
R. A. & J. W. Penfold

Obtain a vast increase in running speed by writing programs for 68000 based micros such as the Commodore Amiga, Atari ST range or Apple Macintosh range etc., in assembly language. It is not as difficult as one might think and this book covers the fundamentals.

| 0 85934 158 5 | 1986 | 178 x 111 mm | 112 pages |

9.3 OPERATING SYSTEM & SOFTWARE SPECIFIC

A CONCISE INTRODUCTION TO UNIX　　　BP259
£2.95　　　　　　　　　　　　　　　　　　N. Kantaris
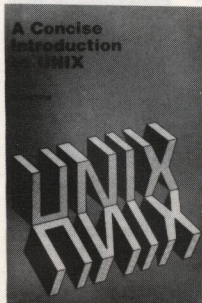
If you are using or intend to use the UNIX multiuser operating system (or any of its variants) and want to get the most out of your computer system in terms of efficiency and productivity, then you must learn its operating system.

With the help of this small book it is hoped that you will be able to do just that in the shortest and most effective way.

0 85934 204 2	1988	198 x 130 mm	64 pages

A CONCISE INTRODUCTION TO OS/2　　　BP260
£2.95　　　　　　　　　　　　　　　　　　N. Kantaris

Similar in style to BP232 and BP259 this small book helps the reader to get the most out of their computer in efficiency and productivity by showing them in the shortest and most effective way how the OS/2 operating system is used.

The book covers both the command-line mode of processing and the Presentation Manager of OS/2 Standard Edition 1.1 as implemented by IBM and Microsoft.

0 85934 205 0	1989	198 x 130 mm	80 pages

A CONCISE INTRODUCTION TO LOTUS 123　　BP261
£3.95　　　　　　　　　　　　　　　　　　N. Kantaris

Provides all the reader basically needs to know, in a short and practical form, to operate one of the most popular software packages.

0 85934 206 9	1989	198 x 130 mm	80 pages

A CONCISE INTRODUCTION TO WORDPERFECT　BP262
£3.95　　　　　　　　　　　　　　　　　　R. A. Penfold

All you basically need to know, presented in a short and practical form, to use one of the most popular of wordprocessor packages.

0 85934 207 7	1989	198 x 130 mm	80 pages

A CONCISE INTRODUCTION TO dBASE　　　BP263
£3.95　　　　　　　　　　　　　　　　　　J. W. Penfold

Similar in style to BP261 and BP262 but this time covering one of the most popular of spreadsheet packages.

0 85934 208 5	1989	198 x 130 mm	80 pages

AN INTRODUCTION TO CP/M　　　　　　　BP183
£2.95　　　　　　　　　　　　　　　　　　R. A. Penfold

CP/M is more than just a program to give a common set of standards and hence software compatibility between various computers. It includes a range of commands that help with such things as file copying and editing, the directing of data to the appropriate device etc. In order to get the best from CP/M and the programs running under it, a basic understanding of the system is highly desirable, and this book tells the story.

0 85934 157 7	1986	178 x 111 mm	96 pages

A CONCISE INTRODUCTION TO GEM　　　BP230
£3.95　　　　　　　　　　　　　　　　　　J. W. Penfold

GEM is a system of computer control consisting of pictorial representations of files and operations which are then manipulated by the user with a device called a "mouse" which is pushed around on a desk so moving a pointer on screen.

This book explains to the beginner all he or she is likely to need to know about GEM.

0 85934 175 5	1989	198 x 130 mm	96 pages

A CONCISE INTRODUCTION TO MS-DOS　　BP232
£2.95　　　　　　　　　　　　　　　　　　N. Kantaris

This guide is written with the non-expert, busy person in mind and, as such, it has an underlying structure based on "what you need to know first, appears first". Nonetheless, the guide is also designed to be circular, which means that you don't have to start at the beginning and go to the end. The more experienced user can start from any section. Now covers versions 3.3 and 4.0.

The guide explains:

How the DOS operating system is structured so that you understand what happens when you first switch on your computer.

How to use the DOS commands to perform various housekeeping operations on your disc files.

How to use the EDLIN line editor to fully configure your system by writing your own CONFIG.SYS and AUTOEXEC. BAT files.

How directories and sub-directories can be employed to organize the way you keep files on your disc so that your system's efficiency is maximized.

How to write batch files to automate the operation and use of your system.

How to manage your system's environment.

The book covers all versions of 3.x of both PC-DOS and MS-DOS as implemented by IBM and other manufacturers of "compatible" micro-computers, including the AMSTRAD PCs. Coverage extends to both the floppy disc-based and hard disc-based systems. A separate section deals with the DOS shell of version 4.0, which is a menu-driven graphical interface making this version of the operating system easier to use. Familiarity with this version of DOS will make migration to the new operating system OS/2 that much easier.

0 85934 177 1	(Revised Edition) 1989	198 x 130 mm	80 pages

A CONCISE ADVANCED USER'S GUIDE TO MS-DOS　BP264
£2.95　　　　　　　　　　　　　　　　　　N. Kantaris

Follows on from book BP232, this short but practical guide shows the reader some of the more advanced aspects of the DOS operating system.

0 85934 209 3	1989	198 x 130 mm	80 pages

9.4 PROGRAMMING & LANGUAGES
See also book numbers BP154 and BP188

BASIC & PASCAL IN PARALLEL BP126
£1.50 S. J. Wainwright
Takes the two languages — BASIC and PASCAL, and develops programs in both languages simultaneously. The common ground between the two languages is covered and emphasis is placed on the similarities rather than the differences between them.
0 85934 101 1   1983   178 x 111 mm   64 pages

PROGRAMMING IN FORTRAN 77 BP250
£4.95 N. Kantaris
This book is a guide to Fortran programming. Although similarities between Fortran commands and/or statements and those of other languages are occasionally highlighted in the text, the reader is not expected to have any familiarity with such languages.

Fortran statements are introduced and explained with the help of simple programs. The user is encouraged to type these into the computer, save them, and keep improving them as more complex language statements and commands are encountered.

Graded problems are set throughout the book, with full working solutions appearing at the back of the book. At the end of each chapter, additional graded exercises are presented, some with financial or scientific bend, so that users can choose their own level of problem difficulty on which to practice with some additional choice in the preference of the field of application.
0 85934 195 X   1988   198 x 130 mm   160 pages

BASIC & FORTRAN IN PARALLEL BP137
£1.95 S. J. Wainwright & A. Grant
Similar in nature to books BP126 and BP138. Includes a FORTRAN interpreter written for the 16K Spectrum.
0 85934 112 7   1984   178 x 111 mm   96 pages

BASIC & FORTH IN PARALLEL BP138
£1.95 S. J. Wainwright
Similar in style to books BP126 and BP137 but this time the computer languages BASIC and FORTH are considered simultaneously; again, the emphasis being placed on their common ground rather than their differences. Includes a FORTH stack simulator that will run on either a 16K or 48K Spectrum.
0 85934 113 5   1984   178 x 111 mm   112 pages

BASIC & LOGO IN PARALLEL BP196
£2.95 S. J. Wainwright
Again similar in style to the three previous books but BASIC and LOGO are compared and contrasted. LOGO is not only an educational language but it can also be used for more serious applications as it is hoped this book will show. Included is a LOGO Graphics interpreter written in BBC BASIC.
0 85934 171 2   1988   178 x 111 mm   160 pages

LOGO FOR BEGINNERS BP193
£2.95 J. W. Penfold
The ideal book for all those who want to start programming in LOGO which commences at the absolute beginning and progresses right up to the elements of artificial intelligence.
0 85934 167 4   1988   178 x 111 mm   96 pages

AN INTRODUCTION TO C BP252
£2.95 R. A. & J. W. Penfold
Just as the title states, this is the book for those who want to start programming in the computer language C but, as yet, do not know anything about it.
0 85934 197 6   1989   178 x 111 mm   96 pages
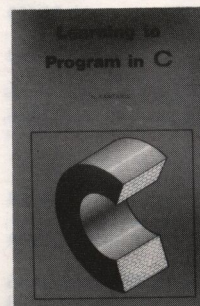
LEARNING TO PROGRAM IN C BP258
£4.95 N. Kantaris
This book is a guide to C programming. C statements are introduced and explained with the help of simple, but completely working programs. The user is encouraged to save these, and keep improving them as more complex language statements and commands are encountered. Graded problems are set at the end of each chapter and full working solutions are given.
0 85934 203 4   1989   198 x 130 mm   144 pages

THE PRE-BASIC BOOK BP146
£2.95 F. A. Wilson
Another book on BASIC but with a difference. This one does not skip through the whole of the subject and thereby leave many would-be programmers floundering but instead concentrates on introducing the technique by looking in depth at the most frequently used and more easily understood computer instructions.
0 85934 121 6   1985   178 x 111 mm   192 pages

AN INTRODUCTION TO
BASIC PROGRAMMING TECHNIQUES
£1.95   BP86

S. Daly

Based on the author's own experience in learning BASIC and in helping others, mostly beginners — to program and understand the language. This book includes a program library and finishes with a number of appendices which include a glossary and test questions and answers on each chapter.

0 85934 061 9   1981   178 x 111 mm   96 pages

A CONCISE INTRODUCTION TO
THE LANGUAGE OF BBC BASIC
£1.95   BP149

T. J. E. Murphy

A clear and concise introduction to BBC BASIC as used by the BBC micros and the ACORN ELECTRON etc.

0 85934 124 0   1985   178 x 111 mm   64 pages

HOW TO GET YOUR
COMPUTER PROGRAMS RUNNING
£2.50   BP169

J. W. Penfold

Have you ever written your own programs only to find that they did not work! Help is now at hand with this book which shows you how to go about looking for your errors, and help you to avoid the common bugs and pitfalls of program writing. Applicable to all dialects of the BASIC language.

0 85934 143 7   1985   178 x 111 mm   96 pages

AN INTRODUCTION TO BASIC-2 ON THE
AMSTRAD PC's
£5.95   BP199

J. W. Penfold

All the beginner needs to know about the version of the BASIC language as used by Amstrad on the PC1512 and PC1640.

0 85934 174 7   1987   264 x 195 mm   96 pages

BBC BASIC86 ON THE AMSTRAD PC's
AND IBM COMPATIBLES
Book 1—LANGUAGE   BP243
£3.95
Book 2—GRAPHICS AND DISK FILES   BP244
£3.95

N. Kantaris & K. Thompson

Book 1: This book is specifically designed for use with the AMSTRAD PC's and IBM compatibles running BBCBASIC86 — the structured language that users of the BBC computer have learned to love. BBC BASIC statements are introduced and explained with the help of simple programs. This enables the user to build up a considerable library of his own programs and procedures which become the building blocks of advanced programming techniques.

Book 2: This book explores the graphics and disk filing capabilities of BBCBASIC86 running on the AMSTRAD PC's and IBM compatibles. It is ideal for those users who
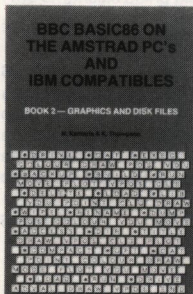
would like to be led through the intricate path of multi-screen graphics, error-handling routines and database filing systems, all of which are illustrated and incorporated into working programs.

Book 1: 0 85934 188 7   1988   198 x 130 mm   112 pages
Book 2: 0 85934 189 5   1988   198 x 130 mm   112 pages

9.5 ADD-ONS & INTERFACING
See also book number BP177 and BP182

MICRO INTERFACING CIRCUITS—Book 1   BP130
£2.25
MICRO INTERFACING CIRCUITS—Book 2   BP131
£2.75

R. A. Penfold

Both books include practical circuits together with details of the circuit operation and useful background information. Any special constructional points are covered but PCB layouts and other detailed constructional information are not included.

BOOK 1 is mainly concerned with getting signals in and out of the computer.

BOOK 2 deals primarily with circuits for practical applications.

Book 1: 0 85934 105 4   1984   178 x 111 mm   112 pages
Book 2: 0 85934 106 2   1984   178 x 111 mm   112 pages

EASY ADD-ON PROJECTS FOR
SPECTRUM, ZX81 & ACE
£2.95   BP124

O. Bishop

Describes how to build a number of electronic projects that you can use with your Spectrum, ZX81 or Jupiter Ace micro-computer. The projects include a Pulse Detector, Picture Digitiser, Five-key Pad, Model Controller, Bleeper, Lamp Flasher, Light pen, Magnetic Catch, Lap Sensor, Photo-flash, Games Control and six more projects that make up a Weather Station. All are fairly simple and inexpensive to construct.

The address decoder is constructed as a separate item that can be used with any of the projects.

0 85934 099 6   1983   178 x 111 mm   192 pages

EASY ADD-ON PROJECTS FOR
AMSTRAD CPC 464, 664, 6128 AND MSX COMPUTERS   BP171
£2.95   O. Bishop

The projects in book BP124 adapted for use with the Amstrad CPC 464, 664, 6128 and the MSX range of machines. But this time there is no need to construct an address decoder as these computers are accessed via their joystick or printer ports.

0 85934 145 3   1986   178 x 111 mm   160 pages

AN INTRODUCTION TO COMPUTER PERIPHERALS   BP170
£2.50   R. A. & J. W. Penfold

Covers such items as monitors, printers, disc drives, cassette recorders, modems, etc. explaining what they are, how to use them and the various types and standards. Helps you make sure that peripherals you buy will work with your computer and with each other.

0 85934 144 5   1985   178 x 111 mm   80 pages

GETTING THE MOST FROM YOUR PRINTER   BP181
£2.95   J. W. Penfold

Details how to use all the features provided on most dot-matrix printers from programs and popular word processor packages like Wordwise, Visawrite and Quill, etc. Shows exactly what must be typed in to achieve a given effect.

0 85934 155 0   1986   178 x 111 mm   96 pages

9.6. GENERAL & PRACTICAL INTRODUCTIONS

COMPUTER HOBBYISTS HANDBOOK   **BP251**
£5.95   **R. A. & J. W. Penfold**
Provides a single, quick reference source to a cornucopia of data and information that the computer hobbyist is likely to find useful.
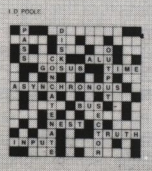0 85934 196 8   1989   264 x 195 mm   128 pages

COMPUTER TERMINOLOGY EXPLAINED   **BP148**
£1.95   **I. D. Poole**

Explains a wide range of terms that form the computer jargon used by enthusiasts and which also appears in books and magazines. Also includes a reference guide to the more commonly used BASIC commands found on most micro-computers.

0 85934 123 2   1984   178 x 111 mm   96 pages

THE PRE-COMPUTER BOOK   **BP115**
£1.95   **F. A. Wilson**
Aimed at the absolute beginner with no knowledge of computing. An entirely non-technical discussion on computer bits and pieces and programming.
0 85934 090 2   1983   178 x 111 mm   96 pages

PRACTICAL COMPUTER EXPERIMENTS   **BP78**
£1.75   **E. A. Parr**
This book aims to fill in the background to the micro-processor by constructing typical computer circuits in discrete logic and it is hoped that this will form a useful introduction to devices such as adders, stores, etc, as well as a general source book of logic circuits.
0 900162 98 8   1980   178 x 111 mm   96 pages

MICROPROCESSING SYSTEMS AND CIRCUITS   **BP77**
(Elements of Electronics - Book 4)
£2.95   **F. A. Wilson**
A truly comprehensive guide to the elements of micro-processing systems which really starts at the beginning. Teaches the reader the essential fundamentals that are so important for a sound understanding of the subject.
    The other books in this series are BP62, BP63, BP64, BP89 and BP111.
0 900162 97 X   1980   178 x 111 mm   256 pages

A MICROPROCESSOR PRIMER   **BP72**
£1.75   **E. A. Parr**
Starts by designing a small computer and because of its simplicity and logical structure, the language is easy to learn and understand. The shortcomings are then discussed and the reader is shown how these can be overcome by changes and additions to the instruction set. In this way, such ideas as relative addressing, index registers, etc., are developed.
0 900162 92 9   1980   178 x 111 mm   96 pages

9.7 SPECIALIST APPLICATIONS
See also book number BP173 and BP191

AN INTRODUCTION TO COMPUTER GRAPHICS   **BP268**
FOR IBM AND COMPATIBLES
£4.95   **S. J. Wainwright & G. Jones**
Covers the fundamentals of computer graphics from basic principles through to shape generation and manipulation, 3D graphics, in-betweening and dumping graphics screens to the printer.
    Another section of the book deals with the use of graphic devices such as light pens, mice, tablets and joysticks.
    Graphical languages, such as LOGO and menu or ICON-driven graphics packages such as Uniras and Paint will also be covered.
0 85934 213 1   1989   198 x 130 mm   160 pages

AN INTRODUCTION TO DESK TOP PUBLISHING   **BP269**
£5.95   **R. A. & J. W. Penfold**
Introduces the reader to the general principles and practicalities of desk top publishing. Illustrated by some of the popular low cost DTP programs such as Fantasy and Timeworks etc.
0 85934 214 X   1989   264 x 195 mm   96 pages

AN INTRODUCTION TO COMPUTER   **BP177**
COMMUNICATIONS
£2.95   **R. A. Penfold**
Provides details of the various types of modem and their suitability for specific applications, plus details of connecting various computers to modems, and modems to the telephone system. Also includes information on common networking systems and RTTY.
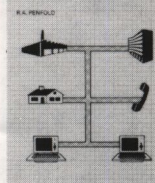
0 85934 151 8   1986   178 x 111 mm   80 pages

10. FAULT-FINDING

See also book numbers BP169, BP248 and BP249

HOW TO GET YOUR   **BP110**
ELECTRONIC PROJECTS WORKING
£2.50   **R. A. Penfold**
We have all built circuits from magazines and books only to find that they did not work correctly, or at all, when first switched on. The aim of this book is to help the reader overcome just these problems by indicating how and where to start looking for many of the common faults that can occur when building up projects.
    Chapter 1 deals with the mechanical faults such as tracing dry joints, short-circuits, broken PCB tracks, etc. The construction and use of a tristate continuity tester, to help in the above, is also covered.
    Chapter 2 deals with linear analogue circuits and also covers the use and construction of a signal injector/tracer which can be used to locate and isolate the faulty areas in a project.
    Chapter 3 considers ways of testing the more common components such as resistors, capacitors, op amps, diodes, transistors, SCRs, unijunctions, etc., with the aid of only a limited amount of test equipment.

Chapter 4 deals with both TTL and CMOS logic circuits and includes the use and construction of a pulse generator to help fault-finding.

0 85934 085 6   1982   178 x 111 mm   96 pages

TRANSISTOR RADIO FAULT-FINDING CHART   BP70
£0.95   C. E. Miller

Used properly, it should enable the reader to trace most common faults reasonably quickly. Across the top of the chart will be found four rectangles containing brief descriptions of these faults, *vis* sound weak but undistorted, set dead, sound low or distorted and background noises. One then selects the most appropriate of these and following the arrows, carries out the suggested checks in sequence until the fault is cleared.

0 900162 86 4   1980   Chart

AUDIO AMPLIFIER FAULT-FINDING CHART   BP120
£0.95   C. E. Miller

This chart will help the reader to trace most common faults that might occur in audio amplifiers. Across the top of the chart are two "starting" rectangles, *vis* Low/Distorted Sound Reproduction and No Sound Reproduction: after selecting the most appropriate one of these, the reader simply follows the arrows and carries out the suggested checks until the fault is located and rectified.

0 85934 095 3   1987   Chart

GETTING THE MOST FROM YOUR MULTIMETER   BP239
£2.95   R. A. Penfold
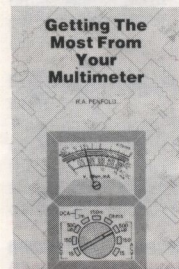
It is amazing just what you can check and test with a simple multimeter if you know what you are doing. This book tells the story, with Chapter 1 covering the basics and relative merits of analogue and digital instruments. Chapter 2 discussing component checking and Chapter 3 dealing with circuit testing.

0 85934 184 4   1988   178 x 111 mm   112 pages

MORE ADVANCED USES OF THE MULTIMETER   BP265
£3.50   R. A. Penfold

A sequel to book BP239 showing the reader some more advanced and unusual applications of that humble test instrument — the simple multimeter.

0 85934 210 7   1989   178 x 111 mm   128 pages

HOW TO USE OSCILLOSCOPES AND OTHER TEST EQUIPMENT   BP267
£3.50   R. A. Penfold

Just as the title says, this book shows the hobbyist how to effectively use a number of pieces of electronic test equipment including the oscilloscope.

0 85934 212 3   1989   178 x 111 mm   128 pages

ELECTRONIC CALCULATOR USERS HANDBOOK   BP33
£1.50   M. H. Babani

Presents formulae, data, methods of calculation, conversion factors, etc., with the calculator user especially in mind, often illustrated with simple examples. Includes the way to calculate using only a simple four-function calculator: trigonometric functions (sin, cos, tan), hyperbolic functions (sinh, cosh, tanh), logarithms, square roots and powers.

A comprehensive section of conversion factors covering such common conversions as length, area, volume and weight, etc., through to more specialised conversions such as viscosity, illumination, and cargo shipping measures, etc.

Formulae for VAT, discounts and mark-up currency conversions, interest, solutions of equations, binary and octal numbers, areas and volumes, statistics and mathematics, etc.

0 85934 036 8   1976   178 x 111 mm   208 pages

YOUR ELECTRONIC CALCULATOR AND YOUR MONEY   BP54
£1.35   F. A. Wilson

All you need to know is how to add,. subtract, multiply and divide on even the most inexpensive calculator: then this book will help you through most everyday money calculations with, hopefully, useful advice where appropriate.

The book starts with a basic revision of the Mathematics of Money (e.g., percentages, decimals, etc.). It is then divided into three other sections: The Calculator in the Home — covering such topics as mortgages, cars, insurance, fuel, shopping, gambling, income tax, etc.; Investment — which includes interest rates, savings, shares, etc. The final section deals with the Calculator in a Small Business.

0 900162 74 0   1979   178 x 111 mm   176 pages

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